CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Bytarayanapura Sub Division,
BBMP.

02nd February 2017

Dear Sir,

Sub: Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE ward No 5

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.15 X 150.16 X 150.0	22547	05/01/2017	02/02/2017	28	8.15	500	**22.22**	**22.44**
2		150.13 X 150.12 X 150.0	22538				8.16	510	**22.67**	
3		150.15 X 150.13 X 150.0	22542				8.18	505	**22.44**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

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Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.14 X 150.15 X 150.0	22544	05/01/2017	02/02/2017	28	8.17	485	**21.56**	**21.85**
2		150.13 X 150.16 X 150.0	22544				8.18	490	**21.78**	
3		150.14 X 150.14 X 150.0	22542				8.20	500	**22.22**	

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Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.15 X 150.16 X 150.0	22547	05/01/2017	02/02/2017	28	8.17	475	**21.11**	**21.48**
2		150.12 X 150.15 X 150.0	22541				8.19	480	**21.33**	
3		150.15 X 150.16 X 150.0	22547				8.21	495	**22.00**	

Note:

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All ward No 5
ಸಿವಿಲ್ ಕಿಟ್ಟಿ A

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.15 X 150.16 X 150.0	22547	05/01/2017	02/02/2017	28	8.17	475	**21.11**	**21.48**
2		150.12 X 150.15 X 150.0	22541				8.19	480	**21.33**	
3		150.15 X 150.16 X 150.0	22547				8.21	495	**22.00**	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

(KHUSHBOO L)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.14 X 150.15 X 150.0	22544	05/01/2017	02/02/2017	28	8.19	490	**21.78**	**22.07**
2		150.13 X 150.14 X 150.0	22541				8.21	495	**22.00**	
3		150.18 X 150.16 X 150.0	22551				8.20	505	**22.44**	

Note:

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ಎಇ ವಾರ್ಡ ನಂ 5
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

(KHUSHBOO L.)
Quality Manager

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Bytarayanapura Sub Division,
BBMP.

25th January 2017

Dear Sir,

Sub: Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE ward No 5

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.14 X 150.12 X 150.0	22539	28/12/2016	25/01/2017	28	8.17	475	**21.11**	**21.56**
2		150.14 X 150.16 X 150.0	22545				8.18	485	**21.56**	
3		150.15 X 150.14 X 150.0	22544				8.20	495	**22.00**	

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AEE Ward no 5
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಪಶ್ಚಿಮ ಬೆಂಗಳೂರು-24

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.12 X 150.15 X 150.0	22541	28/12/2016	25/01/2017	28	8.19	490	**21.78**	**22.15**
2		150.14 X 150.13 X 150.0	22541				8.20	500	**22.22**	
3		150.13 X 150.15 X 150.0	22542				8.21	505	**22.44**	

Note:

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(KHUSHBOO L.)
Quality Manager

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T-2654

To,

Assistant Executive Engineer,
Bytarayanapura Sub Division,
BBMP.

16th January 2017

Dear Sir,

Sub: Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE ward No 5
ಸುಗತ ಕೆಲಸಕ್ಕೆ ಬಾ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.12 X 150.13 X 150.0	22538	19/12/2016	16/01/2017	28	8.16	362	**16.09**	**16.21**
2		150.14 X 150.15 X 150.0	22544				8.17	364	**16.18**	
3		150.15 X 150.16 X 150.0	22547				8.18	368	**16.36**	

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(KHUSHBOO L J)
Quality Manager

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T-2654

To,

Assistant Executive Engineer,
Bytarayanapura Sub Division,
BBMP.

08th December 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE ward no 5

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	08/12/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	517	500	Satisfactory
6	U T S (N/Sq.mm)	574	545	Satisfactory

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(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	08/12/2016
Specific Gravity	**2.67**
Water Absorption	**0.29%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
80	**100**	100	**Satisfies the requirement**
40	**97.4**	95-100	
20	**54.6**	30-70	
10	**25.6**	10-35	
4.75	**3.5**	0-5	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	08/12/2016
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**98.4**	90-100	90-100	90-100	95-100		
	2.36	**87.5**	60-95	75-100	85-100	95-100		
	1.18	**74.2**	30-70	55-90	75-100	90-100		
	0.6	**48.6**	15-34	35-59	60-79	80-100		
	0.3	**25.5**	5-20	8-30	12-40	15-50		
	0.15	**7.8**	0-10	0-10	0-10	0-15		

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Bytarayanapura Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Srinivaspura Hemmannaswamy temple road (Bande road) in ward no. 05, Byatrayanapura Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	08/12/2016

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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(KHUSHBOO L.)
Quality Manager

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